

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A carding machine comprising a main drum fed by a feed system with roughly attenuated and cleaned **fibers fibres**; at least one system of flats for carding the **said fibers fibres, the at least one system of flats** acting on the **said** main drum[[]] **wherein the in which the said** feed systems comprises at least two ~~opening cylinders or~~ briseurs which feed the **said** main drum at different points of the main drum, and ~~in which~~ **wherein** the **said** system of flats comprises a plurality of sets of moving flats arranged downstream of the **said** briseurs, **wherein each of the sets of moving flats is capable of moving both against and with a direction of rotation of the main drum.**

2. (currently amended) **The carding Carding** machine according to claim 1, in which the **said** system of flats comprises a first set of moving flats and a second set of moving flats arranged downstream of the **said** first set of moving flats, **wherein a direction of travel of the bars of the first set of moving flats is in the opposite direction of travel of the bars of the second set of moving flats.**

3. (currently amended) **The carding Carding** machine according to claim 2, in which the **said** sets of moving flats have a covering provided with a plurality of teeth having a predetermined population.

4. (currently amended) ~~Carding machine according to claim 3, in which~~ **A carding machine comprising:**

a main drum fed by a feed system with roughly attenuated and cleaned fibers, wherein the feed system comprises at least two briseurs which feed the main drum at different points of the main drum; and

at least one system of flats for carding the fibres, acting on the main drum, wherein the system of flats comprises a first set of moving flats and a second set of moving flats arranged downstream of the first set of moving flats and wherein each set of moving flats

has a covering provided with a plurality of teeth having a predetermined population, the population of teeth on the first set of moving flats being less than ~~is different from~~ the population of teeth on the second set of moving flats.

5. (cancelled)

6. (currently amended) The carding ~~Carding~~ machine according to claim 4 1, ~~in which~~ wherein there is between the ~~said~~ sets of moving flats a refining region directed towards the ~~said~~ main drum and capable of working the fibre carried by the main drum.

7. (currently amended) The carding ~~Carding~~ machine according to claim 6, ~~in which~~ wherein the ~~said~~ refining region comprising suction nozzles.

8. (currently amended) The carding ~~Carding~~ machine according to claim 7, ~~in which~~ wherein the ~~said~~ suction nozzles have corresponding blades.

9. (currently amended) The carding ~~Carding~~ machine according to claim 8, ~~in which~~ wherein the ~~said~~ refining region comprises control plates.

10. (currently amended) The carding ~~Carding~~ machine according to claim 9, ~~in which~~ wherein the ~~said~~ refining region comprises at least one fixed clothed segment.

11. (currently amended) The carding ~~Carding~~ machine according to claim 4 2, ~~that also~~ comprises further comprising a precarding region directed towards the ~~said~~ main drum and situated upstream of the ~~said~~ first set of moving flats.

12. (currently amended) The carding ~~Carding~~ machine according to claim 11, in which the ~~said~~ precarding region comprises at least one fixed clothed segment, suction nozzles and blades.

13. (currently amended) The carding ~~Carding~~ machine according to claim 4 2, ~~that also~~ comprises further comprising a post-carding region directed towards the ~~said~~ main drum and

situated downstream of the ~~said~~ second set of moving flats.

14. (currently amended) The carding ~~Carding~~ machine according to claim 13, ~~in which~~ wherein the ~~said~~ post-carding region comprises at least one fixed clothed segment, suction nozzles and blades.

15. (currently amended) The carding ~~Carding~~ machine according to claim 4 ~~1~~, ~~that also~~ comprises further comprising, located upstream of the ~~said~~ briseurs, a storage apparatus that produces separate feed lines for the briseurs towards the main drum.

16. (currently amended) The carding ~~Carding~~ machine according claim 4 ~~1~~, ~~that also~~ comprises further comprising a ~~fibre~~ fiber cleaning and attenuating system for each briseur.

17. (currently amended) The carding ~~Carding~~ machine according to claim 4 ~~1~~, ~~in which~~ wherein the points of interaction between the ~~said~~ briseurs and the ~~said~~ main drum are distant from each other on the circumference of the ~~said~~ main drum, allowing the insertion of auxiliary mechanisms for pretreating the fibre fed to the first briseur (~~12a~~) located upstream of the second briseur.

18. (currently amended) The carding ~~Carding~~ machine according to claim 17, ~~in which~~ wherein the ~~said~~ auxiliary pretreatment mechanism comprises blades and suction nozzles.

19. (currently amended) The carding ~~Carding~~ machine according to claim 18, ~~in which~~ wherein the ~~said~~ auxiliary pretreatment mechanism also comprises a fixed clothed segment.

20. (currently amended) A carding ~~Carding~~ method comprising the ~~following~~ steps of: feeding a main drum of a carding machine with a first stream of ~~fibre~~ fiber in a thin layer to a first point of interaction with the ~~said~~ main drum; feeding the main drum of the carding machine, simultaneously with the ~~said~~ first stream, with a second stream of ~~fibre~~ fiber in a thin layer to a second point of interaction with the ~~said~~ main drum, the ~~said~~ second point of interaction being downstream of the ~~said~~ first point of interaction; performing on the ~~fibre~~ fiber carried by the

~~said~~ main drum a first parallelization by means of a first set of moving flats having a covering provided with a plurality of teeth having a predetermined population; performing on the ~~fi~~~~bre~~ fiber carried by the ~~said~~ main drum a second parallelization by means of a second set of moving flats situated downstream of the ~~said~~ first set of moving flats, the second set of moving flats having a covering provided with a plurality of teeth having a different population than that of the first set of moving flats wherein the first parallelization is less thorough than the second parallelization; and taking the thin layer of parallelized ~~fi~~~~bre~~ fiber from the main drum by means of a doffer system.

21. (cancelled)

22. (currently amended) The carding ~~Carding~~ method according to claim 20 ~~21~~, ~~that also comprises further comprising~~ the step of cleaning and straightening the ~~said~~ first stream of ~~fi~~~~bre~~ fiber in a thin layer before the ~~said~~ stream reaches the ~~said~~ second point of interaction.

23. (currently amended) The carding ~~Carding~~ method according to claim 20, ~~that also includes further comprising~~ the step of refining the thin layer of ~~fi~~~~bre~~ fiber, which has already undergone the ~~said~~ first parallelization, before it undergoes the ~~said~~ second parallelization.

24. (currently amended) The carding ~~Carding~~ method according to claim 23, ~~in which wherein~~ the ~~said~~ refining step comprises the step of cleaning the ~~said~~ ~~fi~~~~bre~~ fiber.

25. (currently amended) The carding ~~Carding~~ method according to claim 24, ~~in which wherein~~ the ~~said~~ refining step comprises the step of straightening the said ~~fi~~~~bre~~ fiber.